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SAFETY HEALTH AND ENVIRONMENTAL AFFAIRS JUN 24 1991

### MATERIAL SAFETY DATA SHEET

PRODUCT

NALCIEAR 2845 FLOCCULANT

Emergency Telephone Number
Medical (708) 920-1510 (24 hours)

#### SECTION 1 PRODUCT IDENTIFICATION

TRADE NAME: NALCLEAR 2845 FLOCCULANT

DESCRIPTION: A polyacrylamide in a water and hydrocarbon solvent

NFPA 704M/HMIS RATING 1/1 HEALTH 2/2 FLAMMABILITY 0/0 REACTIVITY 0 OTHER

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

#### SECTION 2 HAZARDOUS INGREDIENTS

Our hazard evaluation has identified the following chemical ingredient(s) as hazardous under OSHA's Hazard Communication Rule, 29 CFR 1910.1200. Consult Section 14 for the nature of the hazard(s).

INGREDIENT(S)

CAS # APPROX.%

Ethoxylated nonylphenol 9016-45-9 1-5

Hydrotreated light distillate 64742-47-8 20-40

# SECTION 3 PRECAUTIONARY LABEL INFORMATION

CAUTION: May cause irritation to skin and eyes. Avoid contact with skin, eyes, and clothing. Avoid prolonged or repeated breathing of vapor. Use with adequate ventilation. Do not take internally. Keep away from heat and open flame. Keep container closed when not in use.

Empty containers may contain residual product. Do not reuse container unless properly reconditioned.

### SECTION 4 FIRST AID INFORMATION

EYES: SKIN: Flush with water for 15 minutes. Call a physician.

Wash thoroughly with soap and rinse with water. Call a

physician.

INGESTION: INHALATION:

Do not induce vomiting. Give water. Call a physician. Remove to fresh air. Treat symptoms. Call a physician.

NOTE TO PHYSICIAN: No specific antidote is known. Based on the individual reactions of the patient, the physician's judgment should be used to control symptoms and clinical condition.

CAUTION: If unconscious, having trouble breathing or in convulsions, do not induce vomiting or give water.

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#### SECTION 5 HEALTH EFFECTS INFORMATION

PRIMARY ROUTE(S) OF EXPOSURE: Eye, Skin

EYE CONTACT:

Can cause moderate irritation.

SKIN CONTACT:

Can cause moderate irritation.

SYMPTOMS OF EXPOSURE: A review of available data does not identify any

symptoms from exposure not previously mentioned.

AGGRAVATION OF EXISTING CONDITIONS: A review of available data does not

identify any worsening of existing conditions.

#### 6 TOXICOLOGY INFORMATION SECTION

ACUTE TOXICITY STUDIES: Acute toxicity studies have not been conducted on this product, but toxicity studies of the ingredient(s) in Section 2 have been reviewed. The results are shown below.

ACUTE ORAL TOXICITY (ALBINO RATS):

Ethoxylated nonylphenol LD50 = 3,000 mg/kg

ACUTE DERMAL TOXICITY (ALBINO RABBITS):

Ethoxylated nonylphenol ID50 = Greater than 3,000 mg/kg

PRIMARY SKIN IRRITATION TEST (ALBINO RABBITS):

SKIN IRRITATION INDEX DRAIZE RATING:

2.4/8.0 Ethoxylated nonylphenol

PRIMARY EYE IRRITATION TEST (ALBINO RABBITS):

EYE IRRITATION INDEX DRAIZE RATING:

35.5/110.0 Ethoxylated nonylphenol

#### SECTION 7 PHYSICAL AND CHEMICAL PROPERTIES

ODOR: Hydrocarbon COLOR: Opaque ivory FORM: Liquid

DENSITY:

9.1 lbs/gal.

Partially

SOLUBILITY IN WATER: SPECIFIC GRAVITY:

1.09 @ 71 Degrees F

ASIM D-1298 ASIM E-70

pH (NEAT) =VISCOSITY:

1060 cps @ 71 Degrees F

ASTM D-2983 ASTM D-1177

FREEZE POINT:

3 Degrees F

FLASH POINT:

153 Degrees F (PMCC)

ASTM D-93

NOTE: These physical properties are typical values for this product.

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## SECTION 8 FIRE AND EXPLOSION INFORMATION

FLASH POINT: 153 Degrees F (PMCC) ASIM D-93

EXTINGUISHING MEDIA: Based on the NFPA guide, use dry chemical, foam, carbon dioxide or other extinguishing agent suitable for Class B fires. Use water to cool containers exposed to fire. For large fires, use water spray or fog, thoroughly drenching the burning material.

UNUSUAL FIRE AND EXPLOSION HAZARD: May evolve  $\infty$ ,  $\infty$ , or NOx under fire conditions.

# SECTION 9 REACTIVITY INFORMATION

INCOMPATIBILITY: Avoid contact with strong oxidizers (eg. chlorine, peroxides, chromates, nitric acid, perchlorates, concentrated oxygen, permanganates) which can generate heat, fires, explosions and the release of toxic fumes.

THERMAL DECOMPOSITION PRODUCTS: In the event of combustion CO, CO2, NOx may be formed. Do not breathe smoke or fumes. Wear suitable protective equipment.

# SECTION 10 PERSONAL PROTECTION EQUIPMENT

RESPIRATORY PROTECTION: Respiratory protection is not normally needed.

For large spills, entry into large tanks, vessels or enclosed small spaces with inadequate ventilation, a pressure-demand, self-contained breathing apparatus is recommended.

VENTILATION: General ventilation is recommended.

PROTECTIVE EQUIPMENT: Use impermeable gloves and chemical splash goggles when attaching feeding equipment, doing maintenance or handling product.

If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse.

# SECTION 11 SPILL AND DISPOSAL INFORMATION

IN CASE OF TRANSPORTATION ACCIDENTS, CALL THE FOLLOWING 24-HOUR TELEPHONE NUMBER (708-920-1510)

SPILL CONTROL AND RECOVERY:

Small liquid spills: Contain with absorbent material, such as clay, soil or

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#### SECTION 11 SPILL AND DISPOSAL INFORMATION

( CONTINUED )

any commercially available absorbent. Shovel reclaimed liquid and absorbent into recovery or salvage drums for disposal. Refer to CERCIA in Section 14.

Large liquid spills: Dike to prevent further movement and reclaim into recovery or salvage drums or tank truck for disposal. Refer to CERCIA in Section 14.

DISPOSAL: If this product becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, since it does not have the characteristics of Subpart C, nor is it listed under Subpart D.

As a non-hazardous liquid waste, it should be solidified with stabilizing agents (such as sand, fly ash, or cement) so that no free liquid remains before disposal to an industrial waste landfill. A non-hazardous liquid waste can also be incinerated in accordance with local, state and federal regulations.

#### SECTION 12 ENVIRONMENTAL INFORMATION

If released into the environment, see CERCIA in Section 14.

#### SECTION 13 TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME/HAZARD CODE - PRODUCT IS NOT REGULATED DURING TRANSPORTATION

#### SECTION 14 REGULATORY INFORMATION

The following regulations apply to this product.

#### FEDERAL REGULATIONS:

OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200: Based on our hazard evaluation, the following ingredients in this product are hazardous and the reasons are shown below.

Ethoxylated nonlyphenol - Eye irritant Hydrotreated light distillate - Skin irritant, combustible

Hydrotreated light distillate = TWA 5 mg/m3 (oil mist) ACGIH/TLV

Hydrotreated light distillate = TWA 5 mg/m3 (oil mist) OSHA/PEL

CERCLA/SUPERFUND, 40 CFR 117, 302:

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#### SECTION 14 REGULATORY INFORMATION

( CONTINUED )

Notification of spills of this product is not required.

SARA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (TITLE III) - SECTIONS 302, 311, 312 AND 313:

SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355): This product does not contain ingredients listed in Appendix A and B as an Extremely Hazardous Substance.

SECTIONS 311 and 312 - MATERIAL SAFETY DATA SHEET REQUIREMENTS (40 CFR 370): Our hazard evaluation has found this product to be hazardous. The product should be reported under the following EPA hazard categories:

- XX Immediate (acute) health hazard
- -- Delayed (chronic) health hazard
- XX Fire hazard
- -- Sudden release of pressure hazard
- -- Reactive hazard

SECTION 313 - LIST OF TOXIC CHEMICALS (40 CFR 372): This product does not contain ingredients (at a level of 1% or greater) on the List of Toxic Chemicals.

TOXIC SUBSTANCES CONTROL ACT (TSCA):

The chemical ingredients in this product are on the 8(b) Inventory List (40 CFR 710).

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), 40 CFR 261 SUBPART C & D: Consult Section 11 for RCRA classification.

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15/ formerly Sec. 307, 40 CFR 116/formerly Sec. 311:
None of the ingredients are specifically listed.

CLEAN AIR ACT, 40 CFR 60, SECTION 111, 40 CFR 61, SECTION 112: This product does not contain ingredients covered by the Clean Air Act.

#### STATE REGULATIONS:

CALIFORNIA PROPOSITION 65:

None of the chemicals on the current Proposition 65 list are known to be present in this product.

MICHIGAN CRITICAL MATERIALS:

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#### SECTION 14 REGULATORY INFORMATION

( CONTINUED )

This product does not contain ingredients listed on the Michigan Critical Materials Register.

STATE RIGHT TO KNOW LAWS:

This product does not contain ingredients listed by State Right To Know Laws.

#### SECTION 15 ADDITIONAL INFORMATION

None

#### SECTION 16 USER'S RESPONSIBILITY

This product material safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to ensure safe workplace operations. Please consult your local sales representative for any further information.

#### SECTION 17 BIBLIOGRAPHY

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